

AMENDMENTS TO THE CLAIMS

1) – 7) cancelled

8) (ORIGINAL) A composition of matter useful as a phosphor material in light emitting diodes, which composition comprises a material described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 and subject to the proviso that the sum of x, y, or z is equal to at least 1; and wherein B is selected from the group consisting of: Ce, Mn, Ti, Pb, and Sn, and wherein at least 50 % of all of the europium present is present in the divalent state.

9) (ORIGINAL) A composition according to claim 8 wherein $0.5 \leq x \leq 1.5$; $0 \leq y \leq 0.5$; and $0.5 \leq z \leq 1.5$.

10) (ORIGINAL) A composition according to claim 8 wherein $x = 1$, $y = 0$, and $z = 1$.

11) (ORIGINAL) A composition according to claim 8 wherein $1.5 \leq x \leq 2.5$; $0 \leq y \leq 0.5$; and $0 \leq z \leq 0.5$.

12) (ORIGINAL) A composition according to claim 8 wherein $x = 2$, $y = 0$, and $z = 0$.

13) (ORIGINAL) A composition according to claim 8 wherein $1.0 \leq x \leq 2.0$; $0 \leq y \leq 1.0$; and $0 \leq z \leq 0.5$.

14) (ORIGINAL) A composition according to claim 8 wherein $x = 1.5$, $y = 0.5$, and $z = 0$.

15) cancelled

16) (ORIGINAL) A composition according to claim 9 wherein B is present in any amount between about 0.0001% and about 5 % in mole percent based on the total molar weight of said composition.

17) (ORIGINAL) A composition according to claim 10 wherein B is present in any amount between about 0.0001% and about 5 % in mole percent based on the total molar weight of said composition.

18) - 22) cancelled

23) (PREVIOUSLY AMENDED) A light emitting device comprising:

- a) a light source selected from the group consisting of: light-emitting diodes, lamps, and lasers, wherein said light source emits light having a frequency of between about 360 and about 480 nanometers; and
- b) a mixture of at least two different phosphors described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 subject to the proviso that the sum of x, y, or z is equal to at least 1, and wherein at least 50 % of all of the europium present is present in the divalent state, wherein said mixture of phosphors is disposed in a location at which it receives light from said light source.

24) (PREVIOUSLY AMENDED) A light emitting device according to claim 23, wherein said mixture of at least two different phosphors emit white light.

25) cancelled

26) (PREVIOUSLY AMENDED) A light emitting device comprising:

- a) a light source selected from the group consisting of: light-emitting diodes, lamps, and lasers, wherein said light source emits light having a frequency of between about 360 and about 480 nanometers; and
- b) a phosphor described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 subject to the proviso that the sum of x, y, or z is equal to at least 1, and wherein at least 50 % of all of the europium present is present in the divalent state, and further comprising :

- c) a phosphor described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 subject to the proviso that the sum of x, y, or z is equal to at least 1, and further comprising at least one additional element B selected from the group consisting of: Ce, Mn, Ti, Pb, and Sn, wherein said additional element B is present in any amount between about 0.0001 % and about 5% in mole percent based upon the total molar weight of said phosphor, and wherein at least 50 % of all of the europium present is present in the divalent state, thus providing a mixture of phosphors, wherein said mixture of phosphors is disposed in a location at which it receives light from said light source.

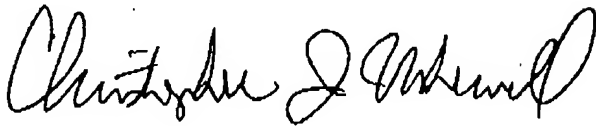
27) (ORIGINAL) A device according to claim 26, wherein said mixture of phosphors emit white light.

28) cancelled

Thus, it is respectfully requested that this Amendment canceling claim 15 be entered.

Thank you for your consideration.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Christopher J. Whewell". The signature is fluid and cursive, with the first name "Christopher" and last name "Whewell" clearly distinguishable.

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